

City of Flagstaff

CERTIFIED MAIL 7005 3110 0000 2034 3676

May 12, 2010

Leonard Ishihara
Air Quality Division
Arizona Department of Environmental Quality
1110 W. Washington St.
Phoenix, AZ 85007

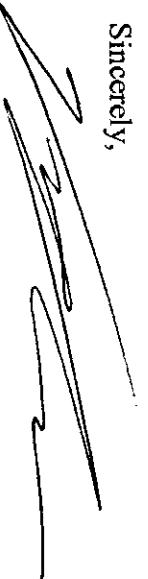
RE: Compliance Certification for the Cinder Lake Landfill October, 2009 thru March, 2010
Air Quality Class I Permit No. 36194
C.O.F. File No. 20-110-13

Dear Mr. Ishihara:

The City of Flagstaff has completed its semi-annual Compliance Certification for Cinder Lake Landfill as required by our Air Quality Class I Permit (Permit No. 36194). This compliance certification is for the time period October 1, 2009 thru March 31, 2010.

If any additional information is needed, please feel free to contact me at your convenience at (928) 527-9840 or by e-mail at krobinson@flagstaffaz.gov.

Sincerely,


Ken Robinson, G.I.T.
Project Manager

cc:
Pat Bourque, Environmental Services Division Manager
Michael Gallegos, Landfill Manager
Landfill File 20-110-13

Cinder Lake Landfill Compliance Certification

October 1, 2009 Thru March 31, 2010

Attachment A: General Provisions

I. Permit Expiration and Renewal

The permit will expire April 13, 2011 and will require the submission of an application of permit renewal 6 months prior expiration.

II. Compliance with Permit Conditions

The following sections document the City of Flagstaff's (City) Cinder Lake Landfill (CLL) compliance with its Air Quality Class I Permit conditions for the period of October 1, 2009 thru March 31, 2010

III. Permit Revisions, Reopening, Revocation and Reissuance, or Termination for Cause

The CLL permit has not been revised, reopened, revoked, or terminated during the time period of October 1, 2009 to March 31, 2010.

IV. Posting of Permit

The certificate of permit issuance is posted in CLL's scale house and the complete permit is filed in CLL's administrative building.

V. Fee Payment

The annual fee for CLL's Air Quality Class I Permit was paid in January 2010.

VI. Annual Emissions Inventory Questionnaire

The annual air emissions inventory for 2009 was submitted by certified mail in March of 2010. This report includes information for the 2009 calendar year.

VII. Compliance Certification

This document serves as compliance certification for the time period of October 1, 2009 to March 31, 2010.

VIII. Certification of Truth, Accuracy and Completeness

All documents submitted by CLL pertaining to the conditions of this permit have contained a certification of truth, accuracy and completeness during the time period of October 1, 2009 to March 31, 2010.

IX. Inspection and Entry

No persons from regulatory agencies enforcing our Air Quality Class I Permit have requested nor have visited CLL during the time period of October 1, 2009 to March 31, 2010.

X.

Permit Revision Pursuant to Federal Hazardous Air Pollutant Standard

CLL has not become subject to a standard promulgated pursuant to section 112 (d) of the Clean Air Act during the time period of October 1, 2009 to March 31, 2010.

XI. Accident Release Program

CLL has not become subject to the provisions of 40 CFR Part 68 during the time period of October 1, 2009 to March 31, 2010.

XII. Reporting of Excess Emissions, Permit Deviations, and Emergencies

CLL has not had any excess emissions, permit deviations, or emergencies during the time period of October 1, 2009 to March 31, 2010.

XIII. Record Keeping Requirements

All monitoring events have been documented and placed in the operating record during the time period of October 1, 2009 to March 31, 2010.

XIV. Reporting Requirements

- A. Compliance Certification: This document serves as the compliance certification during the time period of October 1, 2009 to March 31, 2010.
- B. Excess emissions, permit deviations, and emergency reports: CLL has not had any excess emissions, permit deviations, or emergencies during the time period.
- C. Visible emissions surveys: See Attached.

XV. Duty to Provide Information

CLL shall furnish the Director with any information that he or she may request.

XVI. Permit Amendment or Revision

CLL has not applied for a permit amendment or revision for any changes during the time period of October 1, 2009 to March 31, 2010.

XVII. Facility Change without a Permit Revision

CLL has not made any changes to the facility that would require notification of permit revisions during the time period of October 1, 2009 to March 31, 2010..

XVIII. Testing Requirements

CLL does not have any units that require performance testing.

XIX. Property Rights

This Air Quality Class I Permit does not convey any property rights of any sort..

XX. Severability Clause

No portion of the CLL Air Quality Class I Permit has been challenged during this time period.

XXI. Permit Shield

CLL is in compliance with the conditions of the permit and therefore shall be deemed compliant with the applicable requirements identified in Attachment "C" of the permit. It is understood that the permit shield shall not apply to any changes made pursuant to Section XVI.B and Section XVII of the Attachment.

XXII. Protection of Stratospheric Ozone

CLL is not currently subject to the provisions of 40 CFR Part 82.

Attachment B: Specific Conditions**I. Facility Wide Requirements**

The Permittee has a person on staff that is certified in EPA Reference Method 9. All applicable monitoring and recordkeeping activities that occurred during the time period of October 1, 2009 to March 31, 2010 and that is required by Section VII, Attachment A of CLL's Air Quality Class I Permit are submitted in this document as an attachment.

II. Non-methane Organic Compounds (NMOC)

CLL calculates its NMOC emission rate (M_{NMOC}) using the equation specified in 40 CFR 60.754(a)(1)(i) for sites with known acceptance rates:

$$M_{NMOC} = \sum 2 k L_o M (e^{-k_l})(C_{NMOC})(3.595 \times 10^{-9})$$

In 2008 the City completed a Tier II analysis and obtained site-specific NMOC concentration (C_{NMOC}) of 92 ppmv as Hexane (40 CFR Subpart WWW § 60.754). This updated C_{NMOC} value was used to calculate CLL's 2009 M_{NMOC} . The 5-year projected landfill gas (LFG) and M_{NMOC} emission rates are summarized in the Table 1.

Table 1-Projected LFG and NMOC Generation Rates Cinder Lake Landfill, Flagstaff, AZ

Year	Disposal Rate (tonsy/r)	Refuse In-Place (tons)	Disposal Rate (Mg/yr)	Refuse In-Place (Mg)	Methane Generation Rates (m ³ /yr)	LFG Generation Rates (cfm) (10 ⁶ ft ³ /yr)	NMOC Generation Rates (tonsy/r)	NMOC Rates (Mg/yr)
2009	117,404	4,192,638	106,731	3,803,497	9.535E+06	1,281	673	6.93
2010	120,926	4,310,288	109,933	3,910,228	9.706E+06	1,304	686	7.06
2011	124,554	4,431,469	113,231	4,020,161	9.884E+06	1,328	698	7.19
2012	128,291	4,556,284	116,628	4,133,392	1.007E+07	1,353	711	7.32
2013	132,139	4,684,844	120,127	4,250,019	1.026E+07	1,379	725	7.46
2014	136,103	4,817,261	123,730	4,370,146	1.047E+07	1,406	739	7.61

III. Standards for Collection and Control System

The NMOC emission rate at CLL has not exceeded 50 Mg/yr; therefore, no collection and control system is required at this time.

IV. Asbestos

A. Emission Limits

The City only accepts non-friable asbestos waste. The City currently places non-friable asbestos waste materials in a designated area of the landfill and covers the waste with 6-8 inches of daily cover (dirt). The City has placed an asbestos warning sign at the entrance of the landfill. A 10-foot high perimeter fence deters access by the general public

B. Monitoring/Recordkeeping

1. The City has developed a record keeping system for maintaining records of all non-friable asbestos waste received at the CLL. This program includes keeping records of exceptional waste applications and completed waste shipment records including the CLL's signature noting acceptance of the waste. The City requires that all non-friable asbestos waste be wetted and contained in leak proof containers (waste bags, burrito wrap); if this requirement is not met, the load is rejected.

2. The City has records documenting the current location, depth and area, and quantity of all known non-friable asbestos waste materials within the CLL.

3. Upon closure of any active waste disposal area, the area will meet the specifications included in 40 CFR §61.151.

4. Upon closure of the landfill, the records of asbestos waste disposal locations and quantities will be submitted to the Arizona Department of Environmental Quality.

C. Reporting

CLL rejects all asbestos waste that is improperly enclosed or uncovered. If a discrepancy exists between the quantity of waste designated on the waste shipment record and the actual quantity of waste received, the CLL reconciles the discrepancy with the waste generator and notes the process on the waste shipment record.

V. Fugitive Dust Sources

A. Particulate Matter and Opacity Standards

1. Emission Standards

Visible Emissions (VE) from all operations at the CLL have not had a six minutes average opacity reading in excess of 40% as measured by the EPA Reference Method 9.

2. Air Pollution Controls

CLL utilizes wetting of haul road surfaces as a reasonable precaution to prevent excess visible emissions.

B. Air Pollution Control Requirements

A 3,000 Gallon Water Truck is utilized to wet service roads located throughout the site.

C. Monitoring/Recordkeeping/Reporting

The City submitted a Visible Emissions Observation Plan (prepared by URS Consultants) on January 11, 2001. The plan was approved by ADEQ on March 16, 2001. The City's certified Method 9 observer began conducting bi-weekly visual surveys once the VE plan was approved. Records for these visual surveys are completed and maintained by Matt Morales, P.E., CLL Project Manager and Ken Robinson, G.I.T., CLL Project Manager

VI. Stationary Rotating Machinery

Not applicable. No Stationary Rotating Machinery is used at this site.

VII. Mobile Sources

Mobile Sources are those that either move while emitting air contaminants or are frequently moved during the course of their utilization but are not classified as motor vehicles, agricultural vehicles, or agricultural equipment used in normal farm operations. CLL does not operate any mobile sources.

VIII. Stratospheric Ozone

City maintenance personnel remove refrigerant from waste appliances prior to their being recycled by the Materials Recovery Facility. Maintenance personnel who perform the extractions are certified technicians and the records of the extractions are kept on file at the Environmental Services Department.

Attachment C: Revised Equipment List for the time period of October 1, 2009 to March 31, 2010

Equipment Type	Max. Capacity	Make	Model	Serial Number	Manufacture Date
4WD Pickup Truck	210 hp	Ford	¾ ton	1FTHX26HBE B26511	1997
Motor Grader	240 hp	Caterpillar	14H	72V11972	1989
4WD Pickup Truck	150 hp	Ford	½ ton	2FTEF14NXPC A32022	1993

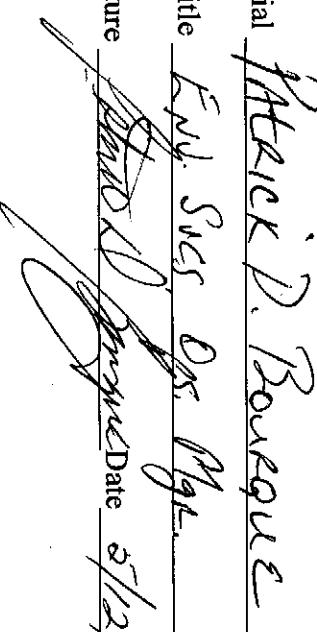
Equipment Type	Max. Capacity	Make	Model	Serial Number	Manufacture Date
Tub Grinder	600 hp	Komptech	Crambo	CEX00270	2006
Dozer	305 hp	Caterpillar	D8R	7XM03295	1998
14CY Dump Truck	250 hp	International	S-2500 A23520	1HTZJURIHH	1987
Compactor	340 hp	Caterpillar	826-G	AYH00633	2004
Compactor	340 hp	Caterpillar	826	7LN00363	1998
Water Truck	250 hp	Ford	Tanker	A90AVFA7277	1978
5-YD Loader	253 hp	Caterpillar	966F	4YG01302	1993
Scraper Auger	249 hp	Caterpillar	627 E	IDL00517	1998
Backhoe	88hp	Komatsu	WB 146	A24028	2007
4WD Pickup Truck	202 hp	Ford	$\frac{1}{2}$ ton	1FTRRX14W16 KC17836	2006
2WD Pickup Truck	150 hp	Ford	$\frac{1}{2}$ ton	2FTEF15N1RC A70028	1994
4WD Pickup Truck	202 hp	Ford	$\frac{1}{2}$ ton	1FTRRF18W53N B39391	2003
Tractor	425 HP	Kenworth	T800	1XKDD09X99J 25681	2009
Tractor	425 HP	Kenworth	T800	1XKDD09X99J 25680	2009

Certificate of Truth, Accuracy & Completeness

I certify that I have knowledge of the facts set forth in this compliance certification, and that all the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Arizona Department of Environmental Quality as public record.

Name of Responsible Official Patrick D. Bourque

Title Env. Svc. Dir. Mgr.

Signature 

Date 5/12/10

EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME <i>City of Elizabethtown</i>	LOCATION <i>City - Industrial</i>	OBSERVATION DATE <i>4/16/03</i>	START TIME <i>14:28</i>	END TIME <i>14:38</i>
CITY <i>Elizabethtown</i>	STATE <i>PA</i>	ZIP <i>17022</i>	COMMENTS	
PROCESS EQUIPMENT <i>Vehicle Equipment</i>	OPERATING MODE <i>Normal</i>	MIN SEC	0 15 30 45	
CONTROL EQUIPMENT <i>3000 psi H2O Tank</i>	OPERATING MODE <i>Normal</i>	1	0 0 0 0	
DESCRIBE EMISSION POINT <i>Furnace #1</i>		2	0 0 0 0	
HEIGHT OF EMISSION POINT <i>60 ft</i>	IN HEIGHT OF EMISSION POINT (RELATIVE TO OBSERVER) <i>10'</i>	3	0 0 0 0	
DISTANCE TO EMISSION POINT <i>50'</i>	START ° END ° <i>0° 35°</i>	4	0 0 0 0	
VERTICAL ANGLE TO OBSERVATION POINT <i>50'</i>	DIRECTION TO EMISSION POINT (DEGREES (0-360)) <i>250°</i>	5	15 0 0 0	Miniblock 15
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	6	0 0 0 0	
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	7	0 0 0 0	
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	8	0 0 0 0	
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	9	15 0 0 0	
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	10	0 0 0 0	
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	11	0 0 0 0	
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	12	0 0 0 0	$\Delta = 15\frac{1}{2}^{\circ}$
START ° END ° <i>0° 35°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) <i>250°</i>	13	0 0 0 0	
DESCRIBE EMISSIONS <i>furnace #1</i>		14	0 0 0 0	
START ° END ° <i>0° 35°</i>	WATER DROPLET FUME <i>Attached</i>	15	0 0 0 0	
DESCRIBE PLUME BACKGROUND <i>none</i>		16	0 0 0 0	
START ° END ° <i>0° 35°</i>	DETACHED <i>none</i>	17	0 0 0 0	
START ° END ° <i>0° 35°</i>		18	0 0 0 0	
BACKGROUND COLOR <i>white</i>	SKY CONDITIONS <i>clear</i>	19	0 0 0 0	
START ° END ° <i>0° 35°</i>	WIND DIRECTION <i>7.4 mph</i>	20	0 0 0 0	
START ° END ° <i>0° 35°</i>	WIND SPEED <i>7.4 mph</i>	21	0 0 0 0	
AMBIENT TEMP <i>68°F</i>	START ° END ° <i>0° 35°</i>	22	0 0 0 0	
WET BULB TEMP <i>68°F</i>	RH DEG RH <i>100%</i>	23	0 0 0 0	
		24	0 0 0 0	
		25	0 0 0 0	
		26	0 0 0 0	
		27	0 0 0 0	
		28	0 0 0 0	
		29	0 0 0 0	
		30	0 0 0 0	
		31	0 0 0 0	
		32	0 0 0 0	
		33	0 0 0 0	
		34	0 0 0 0	
		35	0 0 0 0	
		36	0 0 0 0	
		37	0 0 0 0	

Source Layout Sketch

Observer Point
 Draw North Arrow
 1/4 MI
 Scale 1:4
 50'
 Sub View

OBSERVER'S NAME (PRINT)
John P. Williams

OBSERVER'S SIGNATURE
John P. Williams

DATE
4/16/03

ADDITIONAL INFORMATION
None

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

Concordia College, S.D.

OBSERVATION DATE

STATE TIME

END TIME

卷之三

LOCATION		<i>Under Lake Landfill</i>
ITEM	DESCRIPTION	QUANTITY
Flagstaff	STATE	1
VEHICLE EQUIPMENT	PROCESS EQUIPMENT	16,604
CONTROLLER	PROCESS EQUIPMENT	16,604
ZODIAC PUMP	GENERAL	16,604

MIN	SEC	0	15	30	45	COMMENTS
1	0	0	0	C	C	
2	0	0	0	C	C	
3	0	0	0	0	0	Marked 100
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13						
14						
15						

DESCRIBE EMISSION POINT		<i>Foggy, cloudy, overcast</i>	
HEIGHT OF EMISSION POINT		<i>Height of lens, eye level</i>	
DISTANCE TO EMISSION POINT		<i>0 observer</i>	
START <i>30</i>	END <i>57.4</i>	START <i>0</i>	END <i>57.4</i>
VERTICAL ANGLE TO OBSERVATION POINT		DIRECTION TO EMISSION POINT (DEGREES 3-REC)	
<i>0</i>	<i>30</i>	<i>0</i>	<i>0</i>
START <i>30</i>	END <i>57.4</i>	START <i>0</i>	END <i>57.4</i>
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT		DESCRIBE EMISSIONS	
START <i>- 1/4 -</i>	END <i>- 1/4 -</i>	<i>Water droplets</i>	
DESCRIBE EMISSION COLOR		WATER DROPLET FRAME	
TART <i>1/4</i>	END <i>1/4</i>	ATTACHED <input type="checkbox"/>	DETACHED <input checked="" type="checkbox"/>
DESCRIBE PLUMIC BACKGROUND		NAME <i>JK</i>	

START		END	
BACKGROUND COLOUR		SKY CONDITIONS	IND
START H. END H.	START D. END D.	START C. END C.	WIND DIRECTIONS
IND SPEED			
WEATHER TERMS	START S. END S.	END T. START T.	WET BULB TEMP at percent
LAT.			IND
LONG.			



NCLEX-RN® Test Item Analysis
Version 2014

VISIBLE EMISSION OBSERVATION FORM

Company Name		Observation Date		Start Time		End Time		Comments
		Min	Sec	0	15	30	45	
Location	<u>220 EAST 1RD STRE</u>							
CITY	<u>FAYETTE</u>	State	<u>PA</u>	Zip	<u>86024</u>			
Process Equipment	<u>FLAME CORRODER w/ BROADBAND</u>	Operating Mode						
Control Equipment	<u>3 AMG 6000 THERM</u>	<u>100000</u>						
Describe Emission Point	<u>Stack 100 ft above ground</u>							
Height of Emission Point	<u>100 ft</u>							
Distance to Emission Point	<u>500 ft</u>							
Vertical Angle to Observation Pt.	<u>Start 10° End 30°</u>							
Point In The Plume At Which Opacity Was Determined	<u>Start 10° End 30°</u>							
Describe Emissions	<u>Water Droplet Plume (Circle)</u>							
Emission Color	<u>Attached</u>							
Start <u>10°</u> End <u>30°</u>	<u>Detached</u>							
Point In The Plume At Which Opacity Was Determined	<u>N/A</u>							
Describe Plume Background	<u>Cloudy, overcast</u>							
Start <u>10°</u> End <u>30°</u>	<u>10°</u>							
Background Color	<u>Sky Condition</u>							
Start <u>10°</u> End <u>30°</u>	<u>10°</u>							
Wind Speed	<u>Wind Direction</u>							
Start <u>10°</u> End <u>30°</u>	<u>10°</u>							
Ambient Temp	Wet Bulb Temp <u>70°</u>	RH Percent <u>50%</u>						
Start <u>10°</u> End <u>30°</u>	<u>70°</u>	<u>50%</u>						
SOURCE LAYOUT SKETCH								
<p>The sketch shows a stack with a plume rising from it. An observer's position is marked with an 'X' at an angle of 140° from the plume. A dashed line represents the sun location, and a circle with a north arrow indicates the direction.</p>								
<p>Observer's Name (Print): <u>MICHAEL H. REED</u></p> <p>Observer's Signature: <u>MICHAEL H. REED</u></p> <p>Date: <u>6/27/87</u></p> <p>Organization: <u>U.S. EPA</u></p> <p>Certified by: <u>MICHAEL H. REED</u></p> <p>Date: <u>6/27/87</u></p>								
<p>Additional Information</p> <p>Continue on reverse side</p>								

EPA METHOD 9 (40 CFR 60 - Appendix A)

VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME

C. R. & F. Equipment Co.

LOCATION

6700 E. Lincoln Hwy.

CITY

Hawthorne

STATE

IL

ZIP

60040

PROCESS EQUIPMENT

Vinyl Chloride

CONTROL EQUIPMENT

Boiler and Air Filter

OPERATING MODE

Normal

OPERATING RATE

10 MPH

DESCRIBE EMISSION POINT

Furnace stack

HEIGHT OF EMISSION POINT

60 ft

HEIGHT OF EMISSION POINT

60 ft

DISTANCE TO EMISSION POINT

0 ft

VERTICAL ANGLE TO EMISSION POINT

0 degrees

POINT

Start - End

START

25°

END

25°

Start - End

Source Layout Sketch

Draw Left Arrow

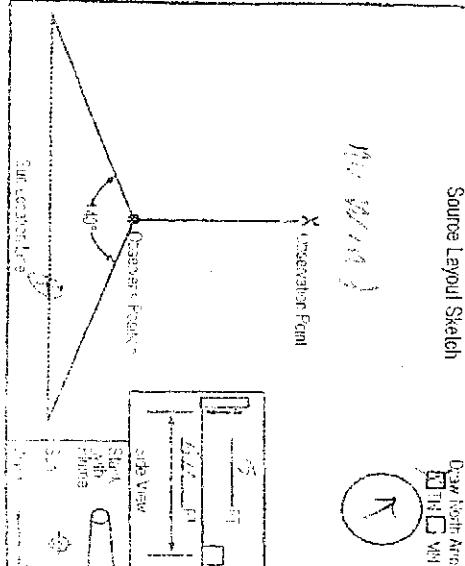
Up

Down

Left

Right

Side View



ADDITIONAL INFORMATION

None

None

None

None

None

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME
City of Flagstaff
LOCATION
Cinder Lake Landfill

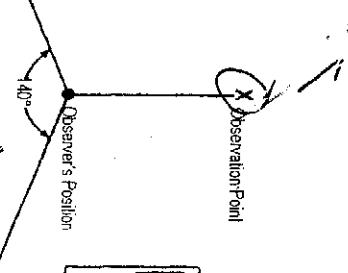
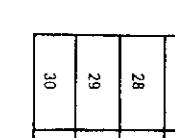
OBSERVATION DATE	KK	START TIME	END TIME			
i/13/64	10	12:07	12:17			
MIN	SEC	0	15	30	45	COMMENTS
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	10	0	0	0	Trash truck 20
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	5	0	0	0	full - off back 5
11						25
12						
13						Visibility = 1.04%
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Source Layout Sketch		Draw North Arrow <input checked="" type="checkbox"/> IN MN
		Side View
Start <i>Stack</i>	End <i>Stack</i>	Stack Plume with Sun Wind
100 ft	100 ft	12 ft/sec
Start <i>Sun</i>	End <i>Sun</i>	Sun Location Line
100 ft	100 ft	100 ft
Start <i>Wind</i>	End <i>Wind</i>	
100 ft	100 ft	

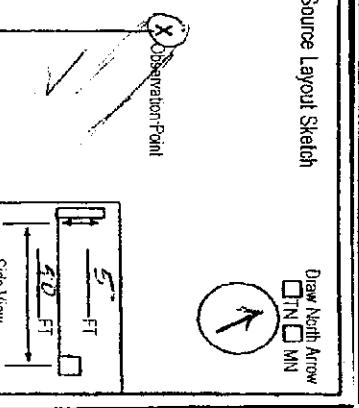
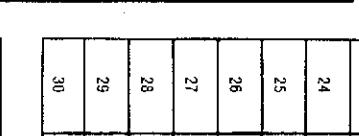
ADDITIONAL INFORMATION

OBSERVER'S NAME (PRINT)	<i>Merv Polman</i>
OBSERVER'S SIGNATURE	<i>Merv Polman</i>
DATE	<i>1/13/64</i>
ORGANIZATION	<i>City of Flagstaff</i>
CERTIFIED BY	<i>ADCA</i>
DATE	<i>1/13/64</i>

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME City of Flagstaff		OBSERVATION DATE 1/27/10	START TIME 10:36	END TIME 10:32
LOCATION Cinder Lake Landfill				COMMENTS
CITY Flagstaff	STATE AZ	ZIP 86004		
PROCESS EQUIPMENT Vehicle Equipment		OPERATING MODE 10 MPH		
CONTROL EQUIPMENT None (freezing line at 0 ft)		OPERATING MODE -NA-		
DESCRIBE EMISSION POINT Fugitive dust from tire contact areas near fuel				
HEIGHT OF EMISSION POINT ft				
DISTANCE TO EMISSION POINT 6640	TO OBSERVER 0	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER		
VERTICAL ANGLE TO OBSERVATION POINT 0°	START END Time	DIRECTION TO EMISSION PT. IN DEGREES (0-360) 25°		
START END Time	START END Time	DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) 25°		
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT -NA- -NA-				
DESCRIBE EMISSIONS fugitive dust	END Time			
EMISSION COLOR tan	WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/> NONE <input checked="" type="checkbox"/>			
DESCRIBE PLUME BACKGROUND background	END Time			
START END Time	END Time	SKY CONDITIONS CLEAR		
BACKGROUND COLOR white	END Time			
WIND SPEED 3 mph	START END Time	WIND DIRECTION N		
START END Time	START END Time	WEATHER TEMP -NA-		
AMBIENT TEMP 72°F	END Time	WET BULB TEMP -NA-		
START END Time		RH percent -NA-		
Source Layout Sketch 		Draw North Arrow <input type="checkbox"/> IN <input checked="" type="checkbox"/> MN		
Side View 				
OBSERVER'S NAME (PRINT) John Robinson				
OBSERVER'S SIGNATURE 		DATE 1/27/10		
ORGANIZATION City of Flagstaff				
CERTIFIED BY ADEK		DATE 9/14		
ADDITIONAL INFORMATION				

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME City of Flagstaff		OBSERVATION DATE 3/10/10	START TIME 11:20	END TIME 11:20
LOCATION Cinder Lake Landfill				
CITY Flagstaff	STATE AZ	ZIP 86001	COMMENTS	
PROCESS EQUIPMENT Vehicle Equipment		OPERATING MODE Operating	0	
CONTROL EQUIPMENT Vehicle Equipment		OPERATING MODE Operating	0	
DESCRIBE EMISSION POINT Floating dust from fire impact in road surface				
HEIGHT OF EMISSION POINT 6 ft 40		HEIGHT OF EMISSION POINT RELATIVE 0 ft		
DISTANCE TO EMISSION POINT 50' SSW		DIRECTION TO EMISSION PT. (DEGREES 0-360) 25° SSW		
VERTICAL ANGLE TO OBSERVATION POINT 0° 30' SSW		DIRECTION TO OBSERVATION POINT DEGREES (0-360) 25° SSW		
START 30' END 30'		START 25° END 30'		
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT - N/A -				
START 30' END 30'		END - N/A -		
DESCRIBE EMISSIONS floating dust		14		
EMISSION COLOR gray		15		
WATER DROPLET PLUME attached		16		
START 30' END 30'		17		
DESCRIBE PLUME BACKGROUND smoky		18		
BACKGROUND COLOR gray		19		
SKY CONDITIONS cloudy		20		
WIND SPEED 5 mph		21		
START 45° N END 5° S		22		
WET BULB TEMP 72° F		23		
RH percent 50%		24		
AMBIENT TEMP 28° F		25		
START 28° F END 30° F		26		
27		27		
28		28		
29		29		
30		30		
Source Layout Sketch 				
OBSERVER'S NAME (PRINT) Kent Polkman				
OBSERVER'S SIGNATURE 				
DATE 3/10/10				
ORGANIZATION City of Flagstaff				
CERTIFIED BY APDQ				
DATE 3/10/10				
ADDITIONAL INFORMATION Specs				

EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME **City of Flagstaff**

LOCATION **Cinder Lake Landfill**

LOCATION **6770 E. Lost Hill Rd.**

CITY **Flagstaff**

STATE **AZ**

ZIP **86004**

PROCESS EQUIPMENT

CONTROL EQUIPMENT

OPERATING MODE

Name **Gravel conveyor belt truck - NA -**

DESCRIBE EMISSION POINT

Furnace dust from

tire contact in load surface

HEIGHT OF EMISSION POINT

HEIGHT OF EMISSION POINT RELATIVE

TO OBSERVER

DISTANCE TO EMISSION POINT

START **0** END **50'**

DIRECTION TO EMISSION PT. (DEGREES
(0-360))

VERTICAL ANGLE TO OBSERVATION

POINT

DIRECTION TO OBSERVATION POINT
(DEGREES (0-360))

START **0°** END **90°**

DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT

START **-NA-** END **-NA-**

DESCRIBE EMISSIONS

START **flaming dust** END **smoke**

EMISSION COLOR

WATER DROPLET PLUME

START **NA** END **smoke**

DESCRIBE PLUME BACKGROUND

ATTACHED DETACHED NONE

START **ADC** END **50'**

BACKGROUND COLOR

SKY CONDITIONS

START **white** END **smoke**

WIND DIRECTION

START **SW-NW** END **SW-NW**

WIND SPEED

'WET BULB TEMP'

RH percent

START **70°F** END **50°F**

AMBIENT TEMP

WIND

SUN LOCATION LINE

Sun Location Line

Side View

Sticky plume

Sun

Wind

ADDITIONAL INFORMATION

OBSERVATION DATE **2/24/10**

START TIME **11:03**

END TIME **11:49**

MIN SEC

0 15 30 45

COMMENTS

1	0	0	0	0	pick up truck 0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0

1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0

Opacity = 0%

9					
10					
11					
12					
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30					

OBSERVER'S NAME (PRINT) **Ken Rubinson**

DATE **2/24/10**

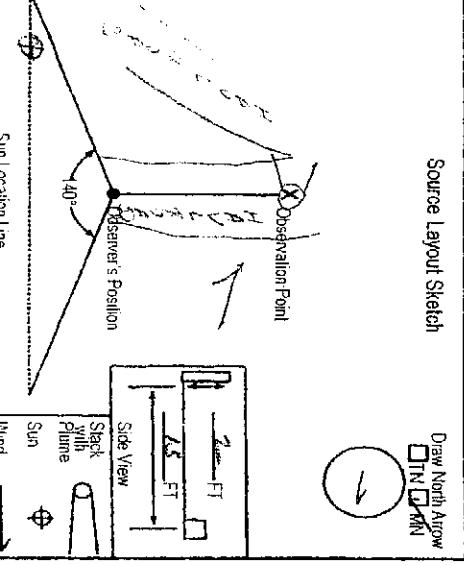
ORGANIZATION **City of Flagstaff**

DATE **2/10/09**

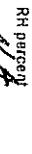
CERTIFIED BY **APDCA**

EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME <u>INTER-STATE EXCAVATOR</u>		OBSERVATION DATE <u>3/14/10</u>	START TIME <u>10:45 AM</u>	END TIME <u>10:26 AM</u>
LOCATION <u>6220 E. LANDFILL ROAD</u>				
CITY <u>FORT ST. JAMES</u>	STATE <u>AZ</u>	ZIP <u>86034</u>		
PROCESS EQUIPMENT <u>ZEPHYR CONCRETE WRECKER</u>		OPERATING MODE <u>OPERATING MODE</u>		
CONTROL EQUIPMENT <u>3000K HZC TRUCK</u>		OPERATING MODE <u>10 MPH</u>		
DESCRIBE EMISSION POINT <u>HAUL ROAD FOR VEHICLE</u>				
<u>TRAILER</u>				
HEIGHT OF EMISSION POINT <u>6645</u>	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER <u>15'</u>			
DISTANCE TO EMISSION POINT <u>3200</u>	DIRECTION TO EMISSION PT. (DEGREES) <u>(0-360)</u>			
START <u>320°</u> END <u>SAME</u>	START <u>240°</u> END <u>SAME</u>			
VERTICAL ANGLE TO OBSERVATION POINT <u>NO DROPOFF</u>	DIRECTION TO OBSERVATION POINT <u>DIRECTIONS (0-360)</u>			
START <u>0°</u> END <u>235°</u>	START <u>235°</u> END <u>SAME</u>			
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT <u>2000 FT E 20° S 000 FT E 000 FT N</u>	END <u>END</u>			
DESCRIBE EMISSIONS <u>WATER DROPLET PLUME</u>				
START <u>NO DROPOFF</u> END <u>SAME</u>	WATER DROPLET PLUME <u>ATTACHED</u>			
EMISSION COLOR <u>NO COLOR</u>	WATER DROPLET PLUME <u>DETACHED</u>			
DESCRIBE PLUME BACKGROUND <u>NO PLUME</u>	WATER DROPLET PLUME <u>NONE</u>			
START <u>NO PLUME</u> END <u>SAME</u>	WATER DROPLET PLUME <u>NO PLUME</u>			
BACKGROUND COLOR <u>NO COLOR</u>	SKY CONDITIONS <u>NO SKY</u>			
START <u>NO SKY</u> END <u>SAME</u>	SKY CONDITIONS <u>NO SKY</u>			
WIND SPEED <u>NO WIND</u>	WIND DIRECTION <u>NO DIRECTION</u>			
START <u>NO WIND</u> END <u>SAME</u>	WIND DIRECTION <u>NO DIRECTION</u>			
AMBIENT TEMP <u>50.0°F</u>	WET BULB TEMP <u>50.3°F</u>			
START <u>50.0°F</u> END <u>50.3°F</u>	RH percent <u>100%</u>			
25	26	27	28	29
30	31	32	33	34
35	36	37	38	39
40	41	42	43	44
45	46	47	48	49
50	51	52	53	54
55	56	57	58	59
60	61	62	63	64
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250	251	252	253	254
255	256	257	258	259
260	261	262	263	264
265	266	267	268	269
270	271	272	273	274
275	276	277	278	279
280	281	282	283	284
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599	600	601	602	603
604	605	606	607	608
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729	730	731	732	733
734	735	736	737	738
739	740	741	742	743
744	745	746	747	748
749	750	751	752	753
754	755	756	757	758
759	760	761	762	763
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769	770	771	772	773
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799	800	801	802	803
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809	810	811	812	813
814	815	816	817	818
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824	825	826	827	828
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859	860	861	862	863
864	865	866	867	868
869	870	871	872	873
874	875	876	877	878
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889	890	891	892	893
894	895	896	897	898
899	900	901	902	903
904	905	906	907	908
909	910	911	912	913
914	915	916	917	918
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924	925	926	927	928
929	930	931	932	933
934	935	936	937	938
939	940	941	942	943
944	945	946	947	948
949	950	951	952	953
954	955	956	957	958
959	960	961	962	963
964	965	966	967	968
969	970	971	972	973
974	975	976	977	978
979	980	981	982	983
984	985	986	987	988
989	990	991	992	993
994	995	996	997	998
999	1000	1001	1002	1003



Draw North Arrow



Side View



Stack Plume



Sun Wind

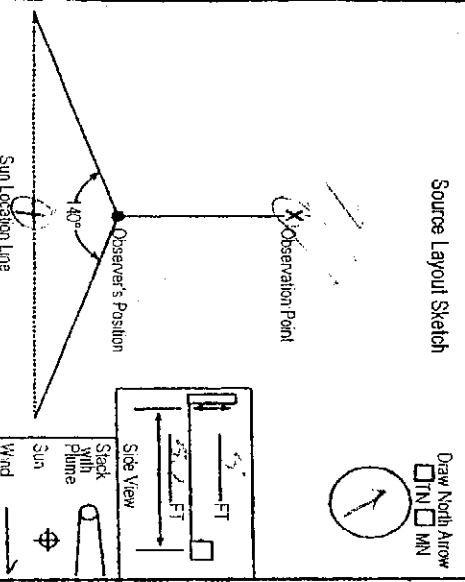


ADDITIONAL INFORMATION

ALL ELEMENTS MADE READING

PERCENTAGE TO COMBINE

EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME <i>City of Flagstaff</i>		OBSERVATION DATE <i>3/20/10</i>		START TIME <i>12:26</i>	END TIME <i>12:42</i>			
LOCATION <i>Center like Lumber Mill</i>	SEC MIN	0	15	30	45	COMMENTS		
LOCATION <i>170 Lumber Mill Rd.</i>	SEC	0	0	0	0			
CITY <i>Flagstaff</i>	STATE <i>AZ</i>	ZIP <i>86004</i>						
PROCESS EQUIPMENT <i>Timber Gated Pulver</i>	OPERATING MODE <i>10 min</i>							
CONTROL EQUIPMENT <i>3000 ft track</i>	OPERATING MODE <i>10 min</i>							
DESCRIBE EMISSION POINT <i>Furnace dust filter</i>	OPERATING MODE <i>10 min</i>							
HEIGHT OF EMISSION POINT <i>60 ft</i>	OPERATING MODE <i>10 min</i>							
HEIGHT OF EMISSION POINT RELATIVE <i>High surface</i>	OPERATING MODE <i>10 min</i>							
DISTANCE TO EMISSION POINT <i>0</i>	DIRECTION TO EMISSION PT. (DEGREES (0-360))							
START <i>30°</i> END <i>30°</i>	START <i>25°</i> END <i>25°</i>							
VERTICAL ANGLE TO OBSERVATION POINT <i>0°</i>	DIRECTION TO OBSERVATION POINT (DEGREES (0-360))							
START <i>25°</i> END <i>25°</i>	START <i>25°</i> END <i>25°</i>							
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT <i>- NNE -</i>	DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT <i>- NNE -</i>							
DESCRIBE EMISSIONS <i>Furnace dust filter</i>	DESCRIBE EMISSIONS <i>Furnace dust filter</i>							
START <i>Flagstaff</i> END <i>Flagstaff</i>	START <i>Flagstaff</i> END <i>Flagstaff</i>							
EMISSION COLOR <i>Water droplet plume</i>	EMISSION COLOR <i>Water droplet plume</i>							
START <i>10°</i> END <i>10°</i>	START <i>10°</i> END <i>10°</i>							
DESCRIBE PLUME BACKGROUND <i>Attached</i>	DESCRIBE PLUME BACKGROUND <i>Attached</i>							
START <i>ADC</i> END <i>ADC</i>	START <i>ADC</i> END <i>ADC</i>							
BACKGROUND COLOR <i>Cloudy</i>	BACKGROUND COLOR <i>Cloudy</i>							
SKY CONDITIONS <i>Cloudy</i>	SKY CONDITIONS <i>Cloudy</i>							
START <i>W</i> END <i>E</i>	START <i>W</i> END <i>E</i>							
WIND SPEED <i>WET BULB TEMP</i>	WIND SPEED <i>WET BULB TEMP</i>							
START <i>15.3°F</i> END <i>71.8°F</i>	START <i>15.3°F</i> END <i>71.8°F</i>							
AMBIENT TEMP <i>71.8°F</i>	AMBIENT TEMP <i>71.8°F</i>							
START <i>0</i> END <i>0</i>	START <i>0</i> END <i>0</i>							
Source Layout Sketch		Draw North Arrow <input type="checkbox"/> True <input type="checkbox"/> MN						
		Side View Stack with plume Sun Wind						
OBSERVER'S NAME (PRINT) <i>Karen Johnson</i>		OBSERVER'S SIGNATURE <i>Karen Johnson</i>		DATE <i>3/20/10</i>				
ORGANIZATION <i>City of Flagstaff</i>		CERTIFIED BY <i>APC</i>		DATE <i>3/20/10</i>				
ADDITIONAL INFORMATION								